

Active Recombinant Human ACVR1 Protein, GST-His-tagged

Cat. No. ACVR1-245H Lot. No. (See product label)

SPECIFICATION

Product Overview Human ACVR1 (NM_001105, 145 a.a. - 509 a.a.) partial recombinant protein with GST-His tag expressed in Sf9 cells.

Species Human

Source Insect Cells

ProteinLength 145-509 a.a.

Description

Activins are dimeric growth and differentiation factors which belong to the transforming growth factor-beta (TGF-beta) superfamily of structurally related signaling proteins. Activins signal through a heteromeric complex of receptor serine kinases which include at least two type I (I and IB) and two type II (II and IIB) receptors. These receptors are all transmembrane proteins, composed of a ligand-binding extracellular domain with cysteine-rich region, a transmembrane domain, and a cytoplasmic domain with predicted serine/threonine specificity. Type I receptors are essential for signaling; and type II receptors are required for binding ligands and for expression of type I receptors. Type I and II receptors form a stable complex after ligand binding, resulting in phosphorylation of type I receptors by type II receptors. This gene encodes activin A type I receptor which signals a particular transcriptional response in concert with activin type II receptors. Mutations in this gene are associated with fibrodysplasia ossificans progressive. [provided by RefSeq, Jul 2008]

Form Liquid

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Bio-activity	92 pmol/ug x min
Molecular Mass	71.534 kDa
Applications	Functional Study SDS-PAGE
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing
Concentration	0.391 µg/µL
Storage Buffer	In 50 mM Tris-HCl, 100 mM NaCl, pH 8.0. (5 mM DTT, 4 mM reduced glutathione, 20% glycerol)

GENE INFORMATION

Gene Name	ACVR1 activin A receptor, type I [Homo sapiens]
Official Symbol	ACVR1
Synonyms	ACVR1; activin A receptor, type I; ACVRLK2; activin receptor type-1; ACVR1A; ALK2; SKR1; activin receptor type I; hydroxyalkyl-protein kinase; activin receptor-like kinase 2; TGF-B superfamily receptor type I; activin A receptor, type II-like kinase 2; serine/threonine-protein kinase receptor R1; FOP; TSRI; ACTRI;
Gene ID	90
mRNA Refseq	NM_001105
Protein Refseq	NP_001096

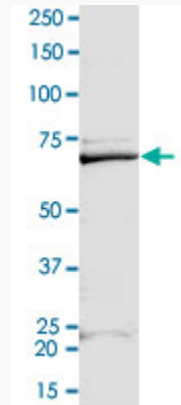
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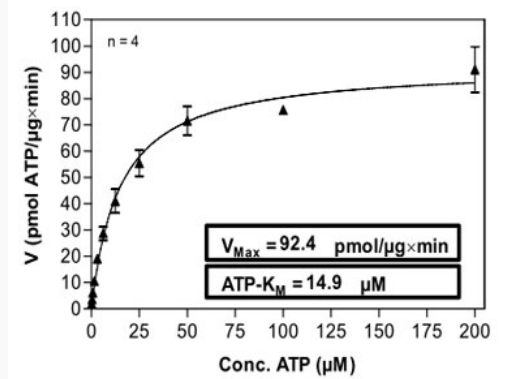
MIM 102576

UniProt ID Q04771



2 ug/lane SDS-PAGE Stained with Coomassie Blue

Result of activity analysis



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